Index of Claims



Application/Control No.

09/666,184

Examiner

Carolyn M. Bleck

Applicant(s)/Patent under Reexamination

MATSUMOTO ET AL.

Art Unit

3626

Rejected **Allowed** 

(Through numeral) Cancelled

Restricted

Ν Interference

Non-Elected

Appeal Α 0 Objected

| Claim        |          | Date     |  |          |              |            |              |          |          | ] [   | Claim |       |          |  |  |   |
|--------------|----------|----------|--|----------|--------------|------------|--------------|----------|----------|---|-------|-------|----------|--|--|---|
| Final        | Original |          |  |          |              |            |              |          |          |   |       | Final | Original |  |  |   |
|              | 1        | √        |  |          |              |            |              |          |          |   |       |       | 51       |  |  | T |
|              | 3        | V        |  |          |              |            | Ī            |          |          |   |       |       | 52       |  |  | T |
|              | 3        | ✓        |  |          |              |            |              |          |          |   |       |       | 53       |  |  | T |
|              | 4        | <b>√</b> |  |          |              |            |              |          |          |   |       |       | 54       |  |  | Ι |
|              | 5        | √        |  |          |              |            |              |          |          |   |       |       | 55       |  |  | Ι |
|              | 6        | <b>√</b> |  |          |              |            |              |          |          |   |       |       | 56       |  |  | Ι |
|              | 7        | ✓        |  | _        |              |            |              |          |          |   |       |       | 57       |  |  | I |
|              | 8        | V        |  |          |              | L.         |              | L        |          |   |       |       | 58       |  |  | I |
|              | 9        |          |  |          |              |            | <u></u>      |          | <u> </u> |   |       |       | 59       |  |  | I |
|              | 10       |          |  |          |              |            |              |          |          |   |       |       | 60       |  |  | Ι |
|              | 11       |          |  |          |              |            |              |          |          |   |       |       | 61       |  |  | Ι |
|              | 12       |          |  |          |              |            |              |          |          |   |       |       | 62       |  |  | I |
|              | 13       |          |  |          | <u> </u>     |            |              |          |          |   |       |       | 63       |  |  | I |
|              | 14       |          |  |          | L            |            |              |          |          |   |       |       | 64       |  |  | I |
|              | 15       |          |  | L        |              |            |              |          |          |   |       |       | 65       |  |  | Ι |
|              | 16       |          |  |          |              |            |              |          |          |   |       |       | 66       |  |  | Γ |
|              | 17       |          |  |          |              |            |              |          |          |   |       |       | 67       |  |  | Γ |
|              | 18       |          |  |          |              |            |              |          |          |   | ] [   |       | 68       |  |  | Γ |
|              | 19       |          |  |          |              |            |              |          |          |   | ] [   |       | 69       |  |  | Γ |
|              | 20       |          |  |          |              |            |              |          |          |   |       |       | 70       |  |  | T |
|              | 21       |          |  |          |              |            |              |          |          |   |       |       | 71       |  |  | Γ |
|              | 22       |          |  |          |              |            |              |          |          |   |       |       | 72       |  |  | Γ |
|              | 23       |          |  |          |              |            |              |          |          |   |       |       | 73       |  |  | Γ |
|              | 24       |          |  |          |              |            |              |          | Ĺ        |   |       |       | 74       |  |  | Γ |
|              | 25       |          |  |          |              |            |              |          |          |   | ] [   |       | 75       |  |  | Ι |
| <u> </u>     | 26       |          |  |          |              |            |              |          |          |   |       |       | 76       |  |  | Ι |
| <u> </u>     | 27       |          |  |          |              |            |              |          |          |   |       |       | 77       |  |  | Γ |
|              | 28       |          |  |          |              |            | _            | _        |          |   |       |       | 78       |  |  | Ι |
|              | 29       |          |  |          |              |            |              |          |          |   |       |       | 79       |  |  | Γ |
|              | 30       |          |  |          |              |            |              |          |          |   |       |       | 80       |  |  |   |
|              | 31       |          |  |          |              |            |              |          |          |   |       |       | 81       |  |  | Γ |
|              | 32       |          |  |          |              |            |              |          |          |   |       |       | 82       |  |  | Γ |
|              | 33       |          |  |          |              |            |              |          |          |   |       |       | 83       |  |  | Γ |
| <u></u>      | 34.      |          |  | L        | _            | _          |              |          |          |   |       |       | 84       |  |  |   |
| L            | 35       |          |  | L        |              | L          |              |          |          |   |       |       | 85       |  |  | L |
|              | 36       |          |  |          |              | L          | _            |          | L        | L   | l     |       | 86       |  |  | I |
|              | 37       |          |  |          |              |            |              |          | L        |   | l     |       | 87       |  |  |   |
|              | 38       |          |  | _        |              | L          | <u></u>      |          |          |   |       |       | 88       |  |  | L |
|              | 39       |          |  |          |              |            |              |          | L        |   |       |       | 89       |  |  | L |
|              | 40       |          |  |          |              |            | <u> </u>     |          | L        |   |       |       | 90       |  |  | L |
|              | 41       |          |  | <u> </u> | $oxed{\Box}$ | L          | L            |          |          |   | [     |       | 91       |  |  | Ĺ |
|              | 42       | Ш        |  | _        | $oxed{oxed}$ | Ш          | _            | _        |          |   |       |       | 92       |  |  | Ĺ |
| $oxed{\Box}$ | 43       |          |  | Ŀ        | <u> </u>     | Ш          | L_           | <u> </u> | L        | L   |       |       | 93       |  |  | L |
|              | 44       |          |  | <u> </u> | Щ            | L          | $oxed{oxed}$ | L        | ļ        | $ldsymbol{le}}}}}}$ |       |       | 94       |  |  | L |
| <u> </u>     | 45       | Щ        |  | <u> </u> | <u> </u>     | <b> </b> _ | <u> </u>     |          |          | <u> </u>  |       |       | 95       |  |  | L |
|              | 46       |          |  | <u> </u> | <u></u>      | Ш          | <u> </u>     | L        | L        |   |       | _     | 96       |  |  | L |
| ļ            | 47       | Ш        |  | <u> </u> | igspace      | Щ          | _            | L        | L        | L   |       |       | 97       |  |  | L |
|              | 48       | Щ        |  | <u> </u> | L            |            | <u> </u>     |          | L        | Щ   |       |       | 98       |  |  | L |
| $\vdash$     | 49       | Ш        |  | _        | $\vdash$     |            | L_           |          |          |   |       |       | 99       |  |  | L |
| L .          | 50       | Щ        |  |          | L            |            | L            |          |          | Ц.,.  | l L   |       | 100      |  |  | L |

| Cla   | Date     |              |  |              |              |              |          |                   |  |  |  |
|-------|----------|--------------|--|--------------|--------------|--------------|----------|-------------------|--|--|--|
| Final | Original |              |  |              |              |              |          |                   |  |  |  |
|       | 51       |              |  | <b>-</b>     |              |              |          |                   |  |  |  |
|       | 52       |              |  |              |              |              |          |                   |  |  |  |
|       | 53       |              |  |              |              |              |          |                   |  |  |  |
|       | 54       |              |  |              |              |              |          |                   |  |  |  |
|       | 55       |              |  |              |              |              |          |                   |  | <u> </u>   |  |
| L     | 56       |              | <u> </u>   | _            | _            |              | L.       | _                 | _  | L  |  |
|       | 57       | <u> </u>     |  |              | _            |              | <u> </u> | <u> </u>          |  |  |  |
|       | 58       | <u> </u>     | <u> </u>   | <u> </u>     | _            | <u> </u>     |          | <u> </u>          | -  | _  |  |
|       | 59       |              | <del> </del>                                     | <u> </u>     |              | <del> </del> | <u> </u> | <u> </u>          | ļ  | <u> </u>   |  |
| -     | 60<br>61 |              | ⊢  | -            |              | -            | ⊢        | -                 |  | -  |  |
|       | 62       | ⊢            | $\vdash$   | $\vdash$     |              | ⊢            | -        | $\vdash$          | -  | -  |  |
|       | 63       | ┢┈           |  | $\vdash$     | -            | -            | -        | $\vdash$          | -  | ├  |  |
|       | 64       | ┢            | ┢  | -            | ╁            | ⊢            | $\vdash$ | $\vdash$          | -  | ⊢  |  |
|       | 65       | <b></b>      | ┢  | $\vdash$     | $\vdash$     | ┢            | $\vdash$ |                   | $\vdash$   |  |  |
|       | 66       | ┰            | _  | 1            |              |              | -        | H                 | <u> </u>   | <del>                                     </del> |  |
|       | 67       |              | H  |              |              |              | _        |                   |  |  |  |
|       | 68       |              |  |              |              |              |          |                   |  |  |  |
|       | 69       | $\vdash$     |  |              |              |              |          | _                 |  |  |  |
|       | 70       |              |  |              |              |              |          |                   | Г  |  |  |
|       | 71       |              |  |              |              |              |          |                   |  |  |  |
|       | 72<br>73 |              |  |              |              |              | Ŀ        |                   |  |  |  |
|       | 73       |              |  |              |              |              |          |                   |  |  |  |
|       | 74       |              | _  |              |              | L            |          | $ldsymbol{f eta}$ | <u> </u>   |  |  |
|       | 75<br>76 |              | _  | _            | _            | <u> </u>     | _        | <u> </u>          | _  | _  |  |
|       | 76       | _            | <u> </u>   | _            | _            | <u> </u>     | <u> </u> | L                 | _  | <u> </u>   |  |
|       | 77<br>78 |              | -  | -            | <u> </u>     | -            |          | _                 | ┝  | <u> </u>   |  |
|       | 79       |              | ├  | ┝            | _            | <u> </u>     | -        | ├                 | <del> </del>                                     | ┝  |  |
|       | 80       |              |  | ├            | $\vdash$     | -            | $\vdash$ | -                 | $\vdash$   | -  |  |
|       | 81       |              | $\vdash$   | -            | -            |              | -        | ┝                 | -  | ┢  |  |
|       | 82       | <del> </del> | <del>                                     </del> | $\vdash$     | <del> </del> |              | $\vdash$ | ┢                 | $\vdash$   | -  |  |
|       | 83       | Т            | <del>                                     </del> | $\vdash$     | H            |              |          | $\vdash$          | -  | _  |  |
|       | 84       |              |  |              | T            |              | _        | T                 | -  | $\vdash$   |  |
|       | 85       |              |  |              | l            |              |          |                   |  | Г  |  |
|       | 86       |              |  |              |              |              |          |                   |  |  |  |
|       | 87       |              |  |              |              |              |          |                   |  |  |  |
|       | 88       | $\Box$       |  | 匚            | L            |              |          |                   |  |  |  |
|       | 89       |              |  |              | L            |              |          |                   |  |  |  |
|       | 90       | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | _            | L            |              | <u> </u> | <u> </u>          |  |  |  |
|       | 91       |              | $\vdash$   | _            | $\vdash$     | <u> </u>     | <u> </u> |                   | L  | <u> </u>   |  |
| ļ     | 92<br>93 | _            | _  |              | <u> </u>     |              | <u> </u> |                   | $\vdash$   | _  |  |
|       | 93       | <u> </u>     |  |              | $\vdash$     | $\vdash$     |          | _                 | <u> </u>   |  |  |
|       | 95       | $\vdash$     | -  |              | $\vdash$     |              | <u> </u> |                   | <del>                                     </del> | _  |  |
|       | 96       | $\vdash$     | $\vdash$   | <u> </u>     | ├─           | $\vdash$     | -        |                   | $\vdash$   | -  |  |
| -     | 97       | -            |  | <del>-</del> |              |              | H-1      | <u> </u>          |  | -  |  |
|       | 98       | $\vdash$     | <del> </del>                                     | H            |              |              | -        | <u> </u>          | $\vdash$   | -  |  |
|       | 99       |              |  |              |              |              |          | $\vdash$          | $\vdash$   |  |  |
|       | 100      |              |  |              | _            |              |          |                   | -  | _  |  |

| Claim |   | Data         |          |              |  |  |          |              |              |                 |  |
|-------|---|--------------|----------|--------------|--|--|----------|--------------|--------------|-----------------|--|
|       |   | Date         |          |              |  |  |          |              |              |                 |  |
| Final | Original  |              |          |              |  |  |          |              |              |                 |  |
|       | 101<br>102<br>103   |              |          |              |  |  |          |              |              |                 |  |
|       | 102   |              |          |              |  |  |          |              |              |                 |  |
|       | 103   |              | L        |              |  |  |          |              |              |                 |  |
|       | 1 104   |              |          | _            | _  |  |          |              | L.           |                 |  |
|       | 105<br>106<br>107   | <u> </u>     |          | <u> </u>     | <u> </u>   | _  |          |              |              |                 |  |
|       | 106   | _            |          | _            | _  | ╙  |          | L            | <u> </u>     | Ш               |  |
|       | 107   |              |          | -            | ├—   | <u> </u>   | _        | ļ            | <b> </b>     | Н               |  |
| -     | 108<br>109<br>110   | _            | -        | ⊢            | -  | <u> </u>   | $\vdash$ | -            | -            | -               |  |
|       | 1109  | _            | <b>-</b> | -            | -  |  | ├        | -            |              | Н               |  |
|       | 111   |              |          | -            | ├  | ⊢  |          |              |              | Н               |  |
|       | 112   | -            | -        | $\vdash$     | $\vdash$   | 1  | -        | $\vdash$     |              | $\vdash$        |  |
|       | 111<br>112<br>113   | <u> </u>     | _        | _            |  | ┢  | -        | $\vdash$     | -            |                 |  |
|       | 114   | Т            |          | t            |  | <del>                                     </del> | $\vdash$ | _            | T            | Н               |  |
|       | 114<br>115  |              | <u> </u> | 1            | 1  | Г  |          |              |              |                 |  |
|       | 116<br>117  |              |          |              | ⇈  |  |          |              |              | П               |  |
|       | 117   |              |          |              |  |  |          |              |              | П               |  |
|       | 118   |              |          |              |  |  |          |              |              |                 |  |
|       | 119<br>120<br>121   |              |          |              |  |  |          |              |              |                 |  |
|       | 120   | <u> </u>     |          |              |  |  |          |              |              |                 |  |
|       | 121   | _            |          |              |  | <u> </u>   | _        | _            |              | Ш               |  |
|       | 122   |              |          | <u> </u>     |  | ╙  | _        | <u> </u>     | _            |                 |  |
|       | 123   |              |          | <u> </u>     | -  | _  | <u> </u> | <u> </u>     | _            | Ш               |  |
|       | 124   | _            | <u> </u> | ⊢            | $\vdash$   |  | <u> </u> | <del> </del> | ┝            | Н               |  |
|       | 126   | _            |          | ⊢            | -  | _  | -        | ┝            | -            | $\vdash$        |  |
|       | 127   |              | -        | <del> </del> | $\vdash$   |  | -        | ┝            | -            | H               |  |
|       | 128   | <del> </del> | _        | ┢            | <del>                                     </del> | -  | -        |              | $\vdash$     |                 |  |
|       | 129   |              |          | $\vdash$     | <del>                                     </del> |  | _        | ┢            | ┢            | Н               |  |
|       | 130   |              |          | $\vdash$     |  | <u> </u>   |          |              | $\vdash$     | Н               |  |
|       | 131   |              |          |              |  |  |          | $\vdash$     |              | П               |  |
|       | 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132 |              |          |              |  |  |          |              |              |                 |  |
|       | 133   |              |          |              |  |  |          |              |              |                 |  |
|       | 133<br>134<br>135   | <u> </u>     |          | Ĺ            |  | 匚  |          |              | Ĺ            |                 |  |
|       | 135   | <u> </u>     | <u> </u> | L            | <u> </u>   | <u> </u>   |          | _            | L.           | Ш               |  |
|       | 136<br>137<br>138   | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>   | ldash  |          | _            | _            | Ш               |  |
|       | 137   |              | _        |              | <u> </u>   | <u> </u>   |          | _            | <u> </u>     | $\sqcup$        |  |
|       | 138   |              | -        | <del> </del> | $\vdash$   | <u> </u>   |          |              | <u> </u>     | $\vdash \vdash$ |  |
|       | 140   |              | -        | <del> </del> | $\vdash$   | <del>  -  </del>                                 | -        |              | $\vdash$     | $\vdash \vdash$ |  |
|       | 141   | -            | -        | -            | $\vdash$   | $\vdash$   |          | $\vdash$     | <del> </del> | H               |  |
|       | 142   | -            |          | ┢            | $\vdash$   | $\vdash$   |          |              | $\vdash$     | Н               |  |
|       | 143   |              | -        | ┢            | H  |  |          |              |              | Н               |  |
|       | 144   |              |          | Г            |  | $\vdash$   | Г        |              | Г            | П               |  |
|       | 145   |              |          |              |  |  |          |              |              | П               |  |
|       | 146   |              |          |              |  |  |          |              |              |                 |  |
|       | 147   |              |          |              |  |  |          |              |              |                 |  |
|       | 148   |              |          |              |  |  |          |              |              |                 |  |
|       | 149   |              |          |              |  |  |          |              |              |                 |  |
|       | 150   |              |          |              | L  |  |          |              |              | Ш               |  |